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Reviewer: Durreshwar Anjum

Timestamp: [year=2008; month=11; day=4; hr=12; min=1; sec=58; ms=426; ]

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Application No: 10587529 Version No: 2.0

**Input Set:****Output Set:**

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**Finished:** 2008-10-08 15:32:57.817  
**Elapsed:** 0 hr(s) 0 min(s) 1 sec(s) 301 ms  
**Total Warnings:** 25  
**Total Errors:** 0  
**No. of SeqIDs Defined:** 27  
**Actual SeqID Count:** 27

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**Input Set:**

**Output Set:**

**Started:** 2008-10-08 15:32:56.516  
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Error code

Error Description

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<141> 2008-10-08

<150> 10/587,259

<151> 2006-07-26

<150> PCT/CA05/00099

<151> 2005-01-25

<160> 27

<170> PatentIn version 3.5

<210> 1

<211> 37

<212> PRT

<213> Artificial Sequence

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Ser	Ser	Tyr	Leu	Glu	Gly	Gln	Ala	Ala	Lys	Glu	Phe	Ile	Ala	Trp	Leu
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Val	Lys	Gly	Arg	Gly
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His	Asp	Glu	Phe	Glu	Arg	His	Ala	Glu	Gly	Thr	Phe	Thr	Ser	Asp	Val
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Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
20 25 30

Val Lys Gly Arg  
35

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<222> (36)..(36)

<223> wherein Arg at position 36 is attached to a NH2

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His Asp Glu Phe Glu Arg His Ala Glu Gly Thr Phe Thr Ser Asp Val  
1 5 10 15

Ser Ser Tyr Leu Glu Gly Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu  
20 25 30

Val Lys Gly Arg  
35

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<400> 4

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Gly  
20 25 30

<210> 5

<211> 30

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<400> 5

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
20 25 30

<210> 6

<211> 30

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<222> (30)..(30)

<223> wherein Arg at position 30 is attached to a NH2

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His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly  
1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg  
20 25 30

<210> 7

<211> 39

<212> PRT

<213> Heloderma horridum

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His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

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<212> PRT  
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His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
35

<210> 9  
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<212> PRT  
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<220>  
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<400> 9

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Tyr  
20 25 30

<210> 10  
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<220>  
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Asp Leu Ser Lys Gln Met Glu Glu Glu Ala Val Arg Leu Phe Ile Glu  
1 5 10 15

Trp Leu Lys Asn Gly Gly Pro Ser Ser Gly Ala Pro Pro Pro Ser  
20 25 30

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<222> (1)..(1)  
<223> wherein Xaa at position 1 is pyroglutamate

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Xaa Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro Ser Lys  
1 5 10 15

Lys Gln Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met  
20 25 30

<210> 12  
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<222> (1)..(1)  
<223> wherein X at position 1 is pyroglutamate

<400> 12

Xaa Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro Ser Lys  
1 5 10 15

Lys Gln Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Leu  
20 25 30

<210> 13  
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 <223> wherein X at position 1 is pyroglutamate  
  
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 1 5 10 15  
  
 <210> 14  
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 <223> wherein X at position 1 is pyroglutamate  
  
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 1 5 10 15  
  
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 Met Gln Arg Leu Cys Val Tyr Val Leu Ile Phe Ala Leu Ala Leu Ala  
 1 5 10 15  
  
 Ala Phe Ser Glu Ala Ser Trp Lys Pro Arg Ser Gln Gln Pro Asp Ala  
 20 25 30  
  
 Pro Leu Gly Thr Gly Ala Asn Arg Asp Leu Glu Leu Pro Trp Leu Glu  
 35 40 45  
  
 Gln Gln Gly Pro Ala Ser His His Arg Arg Gln Leu Gly Pro Gln Gly  
 50 55 60  
  
 Pro Pro His Leu Val Ala Asp Pro Ser Lys Lys Gln Gly Pro Trp Leu

65	70	75	80
Glu Glu Glu Glu Glu	Ala Tyr Gly Trp Met Asp Phe Gly Arg Arg Ser		
85	90	95	

Ala Glu Asp Glu Asn  
100

<210> 16  
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<220>  
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<400> 16

Asp Leu Glu Leu Pro Trp Leu Glu Gln Gln Gly Pro Ala Ser His His
1 5 10 15

Arg Arg Gln Leu Gly Pro Gln Gly Pro Pro His Leu Val Ala Asp Pro
20 25 30

Ser Lys Lys Gln Gly Pro Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly
35 40 45

Trp Met Asp Phe  
50

<210> 17  
 <211> 14  
 <212> PRT  
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<220>  
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<400> 17

Trp Leu Glu Glu Glu Glu Glu Ala Tyr Gly Trp Met Asp Phe
1 5 10

<210> 18  
 <211> 6  
 <212> PRT  
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<220>

<223> Chemically Synthesized

<400> 18

Tyr Gly Trp Met Asp Phe  
1 5

<210> 19

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Chemically Synthesized

<400> 19

Tyr Gly Trp Leu Asp Phe  
1 5

<210> 20

<211> 31

<212> PRT

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<220>

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<222> (31)..(31)

<223> wherein Xaa is either Pro or Tyr

<400> 20

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Xaa  
20 25 30

<210> 21

<211> 40

<212> PRT

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<222> (2)..(2)  
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 <222> (3)..(3)  
 <223> wherein Xaa is either Gly or Phe  
  
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 His Xaa Xaa Gly Thr Phe Ile Thr Ser Asp Leu Ser Lys Gln Met Glu  
 1 5 10 15  
  
 Glu Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro  
 20 25 30  
  
 Ser Ser Gly Ala Pro Pro Pro Ser  
 35 40  
  
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 His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu  
 1 5 10 15  
  
 Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser  
 20 25 30  
  
 Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys Ser Ser Gly Ala  
 35 40 45  
  
 Pro Pro Pro Ser  
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Tyr Gly Trp Met Asp Phe  
1 5

<210> 24  
<211> 6  
<212> PRT  
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<220>  
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<400> 24

Tyr Gly Trp Leu Asp Phe  
1 5

<210> 25  
<211> 10  
<212> PRT  
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<220>  
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<400> 25

Gly Ala Gly Ala Gly Ala Gly Ala Gly Ala  
1 5 10

<210> 26  
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<212> PRT  
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<222> (4)..(4)  
<223> wherein Phe at position 4 is attached to an NH2

<400> 26

Trp Met Asp Phe  
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<210> 27  
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<220>

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<222> (4)..(4)

<223> wherein Phe at position 4 is attached to an NH2

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Trp Leu Asp Phe

1